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Multiscale structure of sheet nacre- [inria.fr \(PDF\)](#)

M Rousseau, E Lopez, P Stempfle, M Brendlé, L ... - *Biomaterials*, 2006 - Elsevier

... Here, we propose to study the **structure** of the ... matrix using techniques such as darkfield

TEM or intermittent ... different places on the inner **shell nacre** layer of ...

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Mollusc shell structures: novel design strategies for synthetic materials

DL Kaplan - *Current Opinion in Solid State & Materials Science*, 1998 - Elsevier

... force microscopy of the nacreous layer in **mollusc** shells. ... Stuckv GD et al.: Doe;

abalone **nacre** form by ... layer-to-layer registry in the **shell structure** based on ...

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Mollusk shell formation: a source of new concepts for understanding biomineralization processes

L Addadi, D Joester, F Nudelman, S Weiner - *Chemistry-A European Journal*, 2006 - interscience.wiley.com

... The observed relatively weak b-sheet **structure** could well ... revisited this problem

using cryo- **TEM** which avoids ... tab-lets of adult **mollusk shell nacre** are coated ...

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Control of aragonite or calcite polymorphism by **mollusk shell** macromolecules

G Falini, S Albeck, S Weiner, L Addadi - *Science*, 1996 - sciencemag.org

... Macromolecules from calcitic **shell** layers induced mainly calcite formation ... is the strategy used by **mollusks** to form ... 9). In the matrix sheets of **nacre**, the core ...

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Mollusc shell microstructures and crystallographic textures- [ensicaen.fr \(PDF\)](#)

D Chateigner, C Hedegaard, HR Wenk - *Journal of Structural Geology*, 2000 - Elsevier

... the crystallographic properties of **nacre** tablets, but ... going systematic analysis of **mollusc shell** textures to ... each of the main **shell structures** (Bøggild, 1930 ...

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Macromolecules in Mollusc Shells and Their Functions in Biomineralization [and Discussion]

S Weiner, W Traub, SB Parker - *Philosophical Transactions of the Royal Society of London*. ..., 1984 - journals.royalsociety.org

... W. 1983Å Electron diffraction of **mollusk shell** organic matrices ... SW 1970

Microarchitecture and deposition of gastropod **nacre**. ... any idea of the **structure** of ...

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Mollusk shell formation: Mapping the distribution of organic matrix components underlying a single ...

F Nudelman, BA Gottiv, L Addadi, S Weiner - *Journal of Structural Biology*, 2006 - Elsevier

... showed that the imprint surface has a differentiated **structure** and raised ... of control over crystal nucleation and growth in **mollusk nacre**. ... **Shell** decalcification. ...

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Structural and mechanical properties of the organic matrix layers of nacre

F Song, AK Seh, YL Bai - *Biomaterials*, 2003 - Elsevier

... of **nacre** can be approximately described as a hypo-periodic **structure**, ie, on the surfaces of the **nacre** parallel to that of the **shell**, each periodic ...

Cited by 57 - Related articles - Web Search - All 6 versions

Crystal orientation, toughening mechanisms and a mimic of nacre

QL Feng, FZ Gui, G Pu, RZ Wang, HD Li - Materials Science & Engineering C, 2000 - Elsevier

... recently showed that soluble **shell** proteins can determine the polymorph of crystals

grown on a ... **Nacre** from the 2-year-old bivalvia **mollusk** shells, Cristaria ...

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Rigid biological systems as models for synthetic composites- [washington.edu](#) [PDF]

G Mayer - Science, 2005 - sciencemag.org

... the fracture surfaces of various **mollusk shell structures**: (A) prismatic ... **Nacre** was

also half as tough in the ... The architecture of a nacreous **structure** is shown ...

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Key authors: S Weiner - G Falini - L Addadi - S Albeck - C Brinker

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